GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA

UNSTARRED QUESTION NO:493
ANSWERED ON:27.04.2016
Uranium Deposits
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Will the Minister of ATOMIC ENERGY be pleased to state:

(a)whether the Government has prepared any special action plan for discovering new deposits of uranium and for upgradation of uranium based power generation technology and if so, the details thereof; and

(b)whether production of atomic energy is proposed to be included in the "Make in India" programme and if so, the details thereof ?

Answer

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND PRIME MINISTER'S OFFICE (DR.JITENDRA SINGH):

(a)Yes, Sir. The Government has prepared an action plan to upgrade the exploration and research capacity of Atomic Minerals Directorate for Exploration and Research (AMD), a constituent unit of Department of Atomic Energy (DAE), with a mandate to identify and evaluate mineral reserves including uranium required for the successful implementation of atomic energy programme of the country, for discovering new uranium deposits. For enhancing the atomic mineral resources including uranium, the Government has formulated new projects involving `831.48 crores during XII Plan period (2012-2017). The capacity increase includes enhancement of (i) drilling meterage by departmental rigs, (ii) heliborne and ground geophysical surveys, and; (iii) analytical support with the help of latest state-of-the-art instruments/equipments. This has helped AMD to augment the uranium reserve of the country by 60,164 tonnes U3O8 during the XII Plan (as on 29.02.2016).

Department of Atomic Energy has got the requisite technology to produce uranium based nuclear power. Nuclear Power Corporation of India Limited (NPCIL), a, Public Sector Undertaking of Department of Atomic Energy (DAE) has been given the responsibility to set up Pressurized Heavy Water Reactors (PHWRs) using the domestically available uranium resources to augment electricity generation through nuclear power reactors.

Eight (8) reactors with a total installed capacity of 2400 MW viz., TAPS-3&4 at Tarapur, Maharashtra; MAPS-1&2 at Kalpakkam near Chennai; and KGS-1 to 4 at Kaiga, Karnataka are fuelled by indigenous fuel. They are presently operated close to their rated power, matching availability of fuel.

(b) The production of electricity generation through PHWRs has been one of the successful ventures of DAE since 1970. This would continue to contribute to the 'Make in India' Programme of the country. The eight reactors indicated above using indigenous uranium reflects the production of Atomic Energy in the 'Make in India' Programme.

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